

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P456253

Luminaire Tested: **GALN-SA7C-730-U-5WQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456253  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA7C-730-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 46674 lumens  
Efficiency: N/A  
Efficacy: 123.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5

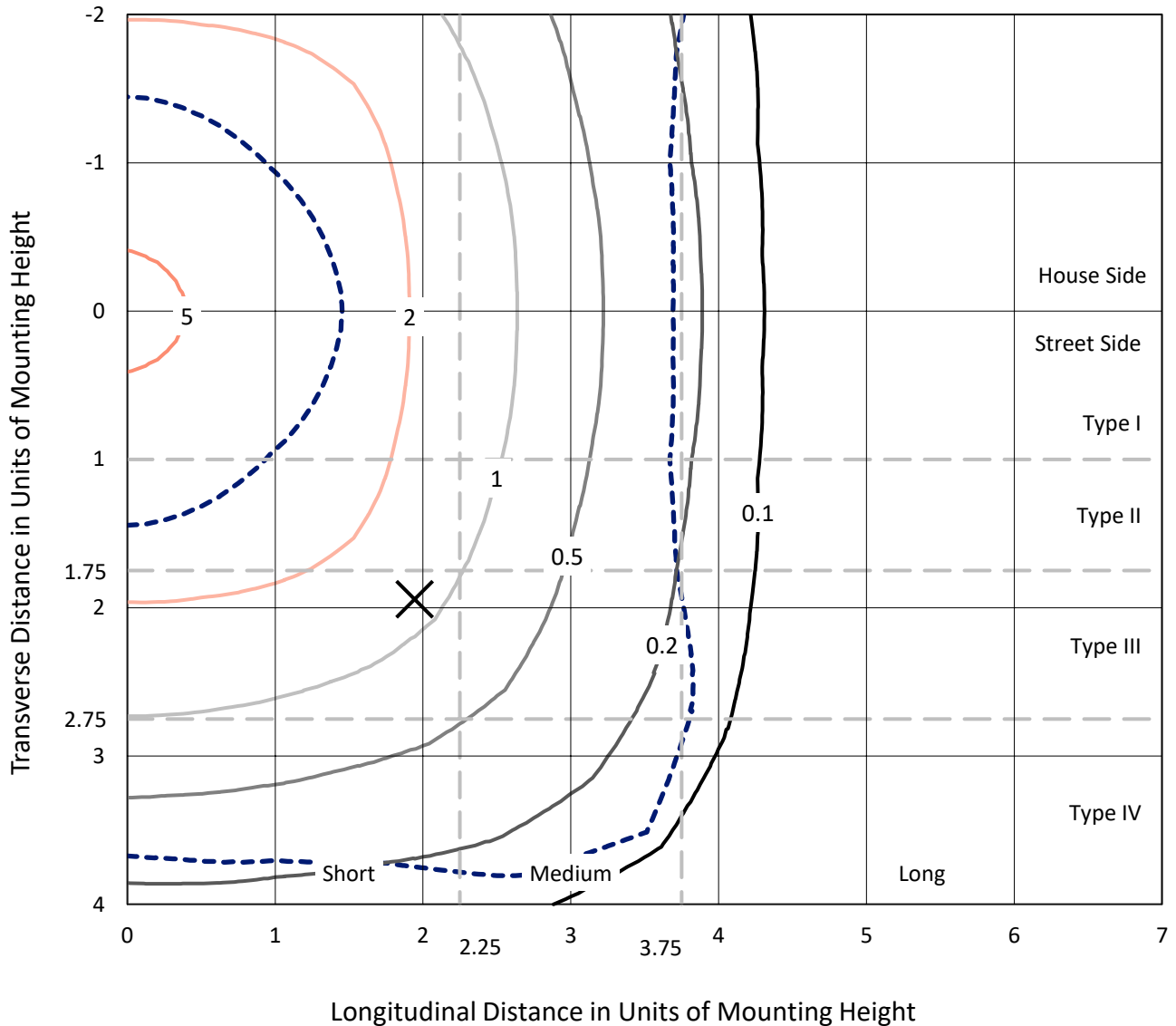
Input Watts (W): 377  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

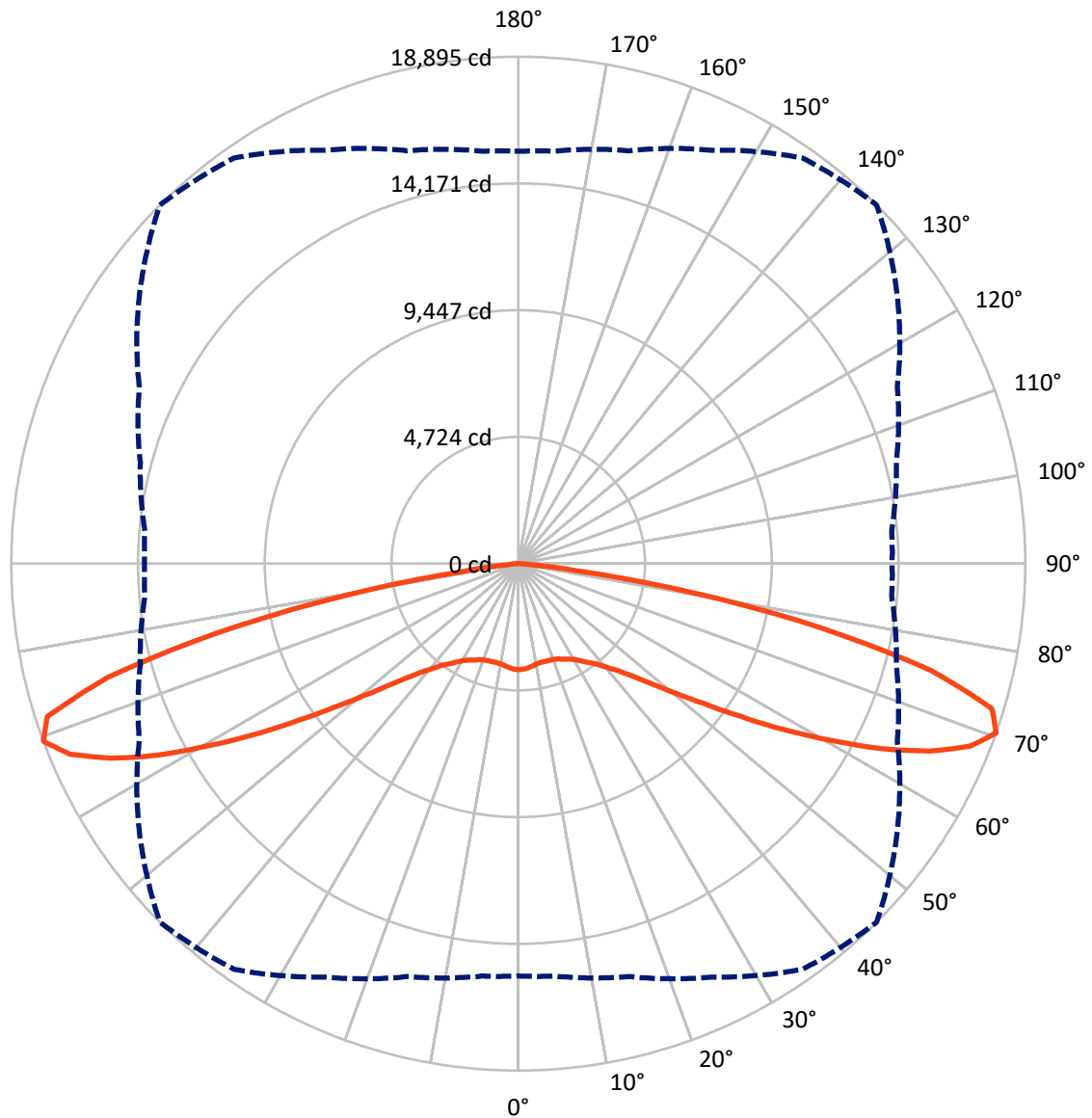
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc  
 Type V - Short - N/A

REPORT NUMBER: P456253  
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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	23337.0	0.0	23337.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	23337.0	0.0	23337.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	46674.0	0.0	46674.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	369.5	0.8
10°-20°	1081.9	2.3
20°-30°	1843.2	3.9
30°-40°	2857.0	6.1
40°-50°	4808.7	10.3
50°-60°	8749.2	18.7
60°-70°	14812.2	31.7
70°-80°	11465.2	24.6
80°-90°	687.0	1.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	46674.0	100.0
0°-180°	46674.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P456253

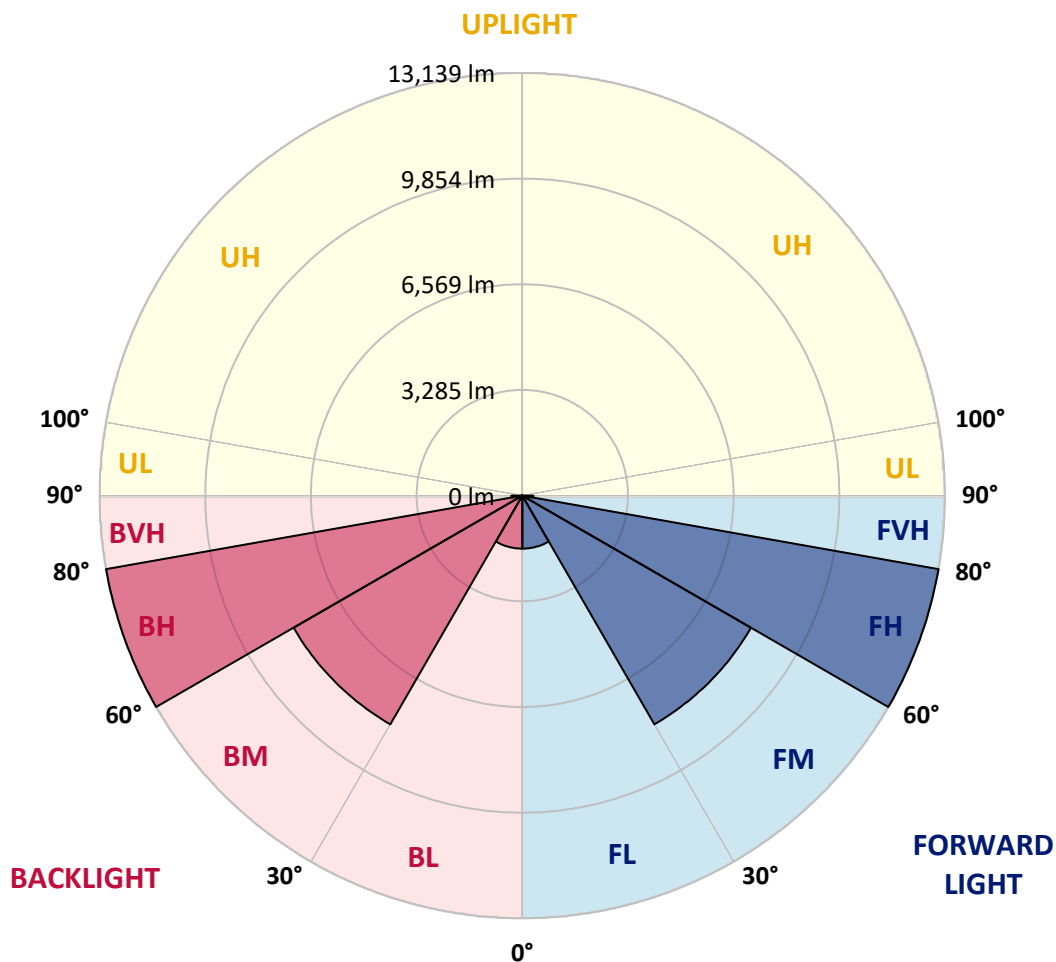
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1647.3	3.5			
FM (30°-60°)	8207.5	17.6			
FH (60°-80°)	13138.7	28.1			G5
FVH (80°-90°)	343.5	0.7			G3/500
BL (0°-30°)	1647.3	3.5	B3/2500		
BM (30°-60°)	8207.5	17.6	B4/8500		
BH (60°-80°)	13138.7	28.1	B5		G5
BVH (80°-90°)	343.5	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3951.5	3951.5	3951.5	3951.5	3951.5	3951.5	3951.5	3951.5	3951.5	3951.5	3951.5
2.5°	3941.7	3944.1	3944.1	3939.2	3936.7	3936.7	3934.3	3934.3	3941.7	3944.1	3946.6
5°	3907.2	3907.2	3907.2	3904.7	3899.8	3899.8	3894.8	3894.8	3897.3	3904.7	3899.8
7.5°	3860.3	3865.2	3865.2	3855.4	3848.0	3848.0	3845.5	3848.0	3850.5	3857.9	3855.4
10°	3845.5	3848.0	3835.7	3818.4	3806.1	3798.7	3801.2	3806.1	3818.4	3823.3	3825.8
12.5°	3855.4	3855.4	3833.2	3808.6	3786.4	3776.5	3774.0	3791.3	3813.5	3828.3	3833.2
15°	3867.7	3862.8	3835.7	3803.6	3781.4	3779.0	3776.5	3788.8	3820.9	3850.5	3852.9
17.5°	3875.1	3872.6	3838.1	3798.7	3786.4	3786.4	3783.9	3793.8	3828.3	3865.2	3867.7
20°	3899.8	3892.4	3852.9	3811.0	3801.2	3806.1	3798.7	3811.0	3848.0	3892.4	3902.2
22.5°	3949.1	3941.7	3902.2	3860.3	3855.4	3855.4	3852.9	3865.2	3904.7	3951.5	3958.9
25°	4008.2	4000.8	3963.9	3934.3	3939.2	3949.1	3944.1	3946.6	3978.6	4018.1	4030.4
27.5°	4087.1	4074.8	4042.7	4018.1	4032.9	4032.9	4032.9	4030.4	4050.1	4087.1	4099.4
30°	4183.2	4178.3	4143.8	4141.3	4153.7	4141.3	4141.3	4143.8	4146.3	4180.8	4193.1
32.5°	4309.0	4299.1	4281.8	4276.9	4311.4	4321.3	4286.8	4254.7	4272.0	4306.5	4313.9
35°	4516.0	4501.2	4476.6	4449.5	4476.6	4523.4	4449.5	4424.8	4469.2	4516.0	4521.0
37.5°	4797.0	4789.7	4750.2	4700.9	4698.4	4747.7	4671.3	4668.9	4752.7	4809.4	4816.8
40°	5149.6	5157.0	5107.6	5060.8	5036.2	5075.6	5016.4	5038.6	5120.0	5184.1	5179.1
42.5°	5645.0	5617.9	5541.5	5497.1	5470.0	5455.2	5440.4	5474.9	5566.2	5635.2	5689.4
45°	6224.3	6214.5	6118.3	6064.1	6004.9	5982.8	5977.8	6039.4	6150.4	6234.2	6241.6
47.5°	6880.0	6857.9	6796.2	6739.5	6717.3	6690.2	6665.6	6712.4	6823.3	6882.5	6899.8
50°	7555.5	7560.4	7560.4	7550.5	7572.7	7577.7	7511.1	7528.4	7590.0	7585.1	7580.1
52.5°	8327.0	8354.2	8482.3	8494.7	8600.7	8672.2	8551.4	8479.9	8457.7	8324.6	8334.4
55°	9234.2	9258.8	9451.1	9643.4	9929.3	10050.1	9796.2	9574.4	9416.6	9214.5	9224.3
57.5°	10365.7	10378.0	10560.4	10930.2	11383.7	11667.2	11221.1	10782.3	10461.8	10269.5	10193.1
60°	11583.4	11595.7	11862.0	12313.1	13018.1	13363.2	12811.0	12093.7	11689.4	11396.1	11415.8
62.5°	13045.2	13094.5	13333.6	13954.8	14810.2	15197.2	14465.1	13506.2	12958.9	12594.1	12608.9
65°	14610.5	14694.4	14955.6	15638.5	16427.3	16843.9	15946.6	14839.8	14159.4	13713.2	13760.1
67.5°	15626.2	15700.1	16077.3	16831.6	17815.1	18160.3	17001.7	15712.4	14862.0	14329.5	14230.9
70°	15367.3	15428.9	15931.8	17001.7	18458.5	18894.8	17253.1	15584.2	14583.4	13969.6	13930.2
72.5°	13565.3	13437.2	14171.8	15707.5	17723.9	18456.1	16461.8	14233.4	12973.7	12342.7	12268.7
75°	8990.2	9268.7	10353.3	12162.7	14995.1	15902.2	14051.0	11428.1	9843.1	9318.0	9236.7
77.5°	3004.9	3219.4	4183.2	6894.8	10222.7	11585.9	10237.5	7474.1	5287.6	4259.7	4279.4
80°	796.2	786.4	1018.1	1895.6	4417.4	6710.0	5142.2	2531.6	1385.4	1003.3	951.5
82.5°	285.9	320.5	411.7	525.1	1170.9	2085.5	1471.7	709.9	520.1	384.6	372.2
85°	125.7	123.3	177.5	209.5	293.3	389.5	345.1	300.7	263.8	175.0	162.7
87.5°	27.1	27.1	41.9	32.0	51.8	51.8	64.1	76.4	78.9	51.8	41.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)